

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/043671 A1

(51) International Patent Classification⁷: F15B 15/02, 15/06, B25B 5/00

H01Q 1/12.

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/AU2004/001474

(22) International Filing Date: 28 October 2004 (28.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003905934 28 October 2003 (28.10.2003) AU

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

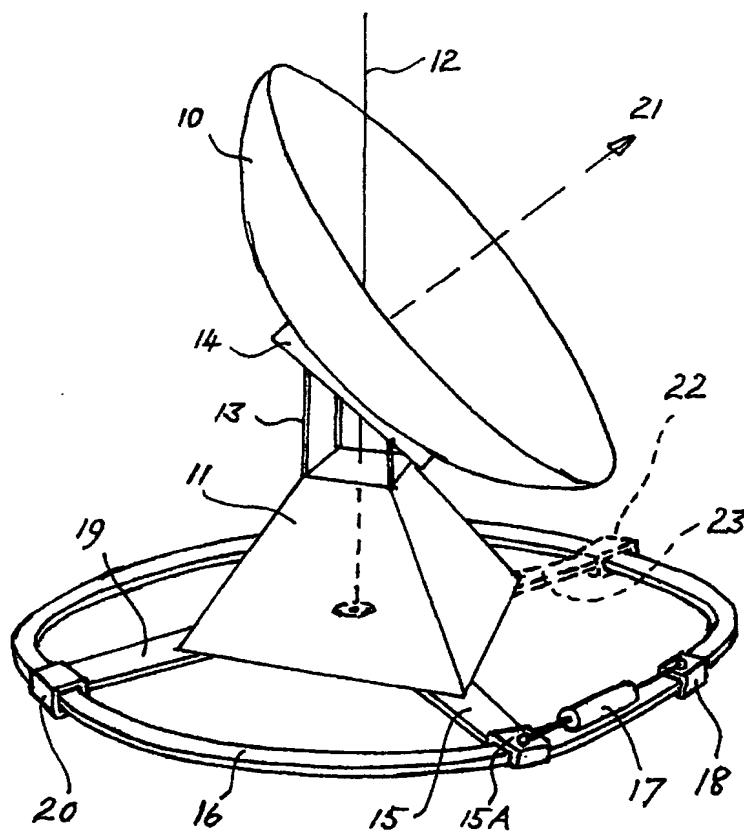
(71) Applicant and

(72) Inventor: KANEFF, Stephen [AU/AU]; 1 Vancouver Street, Red Hill, ACT 2603 (AU).

(74) Agents: DUNCAN, Alan, David et al.; Davies Collison Cave, 1 Nicholson Street, Melbourne, VIC 3000 (AU).

[Continued on next page]

(54) Title: APPARATUS FOR ROTATION OF A LARGE BODY ABOUT AN AXIS



(57) Abstract: Apparatus for the rotation of a large body, such as the base frame (11) of a solar energy collector having a large reflective dish (10), about an axis (12) utilises a ring member or arcuate member (16). An actuator clamp (18) can be moved along the ring or arcuate member when it is not clamped to it. The actuator clamp is connected to one end of an expansion and contraction device, such as a hydraulic ram (17). The other end of the ram is connected to the body or to a rigid arm (15) that is securely connected to the body. With the actuator clamp firmly clamped to the ring or arcuate member, the expansion or contraction of the ram causes the body to rotate about the axis. At least one auxiliary clamp (20, 22) may be provided which may be used to continue the movement of the body while the position of the actuator clamp on the ring or arcuate member is changed.

**Declarations under Rule 4.17:**

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*
- *of inventorship (Rule 4.17(iv)) for US only*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*